

# *New Jersey's* **TECHNOLOGY Industry Cluster**

Prepared by:  
**New Jersey Department of Labor & Workforce Development**  
**Office of Research & Information**  
**Bureau of Labor Market Information**  
**Winter 2021-2022**



STATE OF NEW JERSEY  
DEPARTMENT OF LABOR AND  
WORKFORCE DEVELOPMENT



NEW JERSEY DEPARTMENT OF  
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# THE GOAL OF THIS REPORT IS TO GET AN “IDEA” OF WHAT TECHNOLOGY MEANS TO NEW JERSEY

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**Identify** the types of industries and establishments that make up the technology industry cluster based on a standard industry classification system

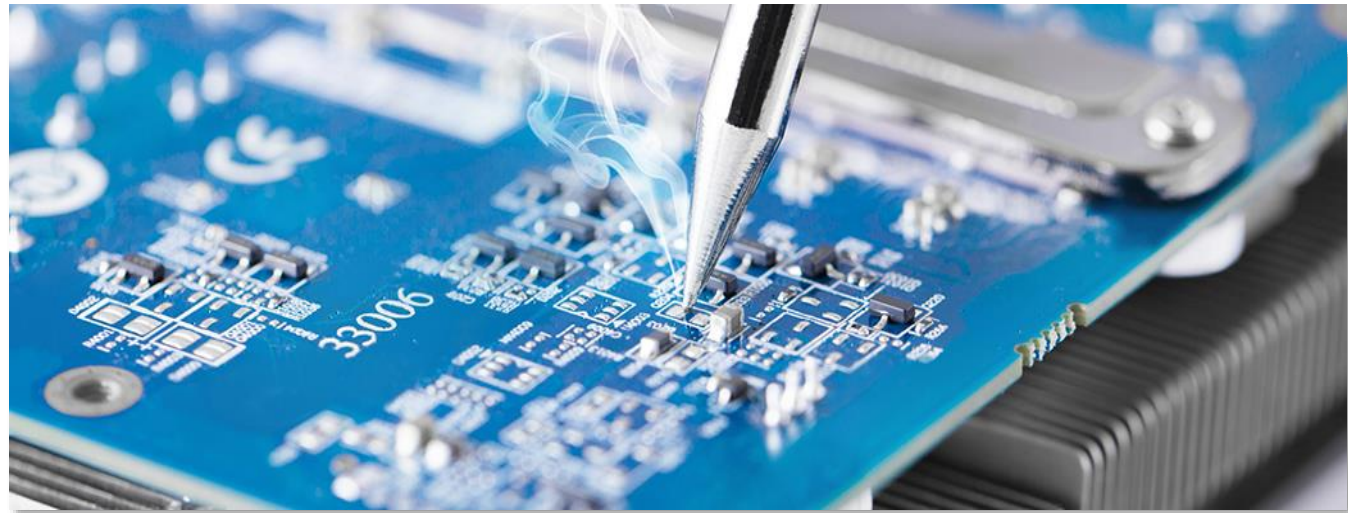
**Describe** any similarities and differences among its components with regard to such variables as employment, wage, occupation type, education, and demographic characteristics

**Examine** any present distinctions within the cluster and its components that give New Jersey a competitive advantage compared to neighboring states, regions or the nation, or show areas where New Jersey could improve to add to the state’s economy

**Analyze** the current state of the technology industry cluster and provide an outlook for employment into the future



# **TECHNOLOGY INDUSTRY CLUSTER: OVERVIEW**



# **TECHNOLOGY STUDY 2020 YEARLY AVERAGES**

**Industries in the technology cluster have a high proportion of scientists, engineers and technicians. They are primarily located in the utilities, manufacturing, information and professional, scientific and technical services industries.**

- In 2020, New Jersey's technology cluster accounted for 184,395 jobs or 5.8 percent of private sector employment statewide.
- The annual average wage for the technology cluster was \$146,123 in 2020 or 197.2 percent of the statewide average (\$74,084) for all industries. Employers in the industry paid more than \$26.9 billion in wages, or about 11.3 percent of the total wages paid in all industries.
- Employment within the technology cluster can primarily be found within the following sectors: professional, scientific and technical services (76.6%), and information (23.4%).

# NEW JERSEY TECHNOLOGY INDUSTRY CLUSTER

## NORTH AMERICAN INDUSTRY CLASSIFICATION SYSTEM (NAICS)

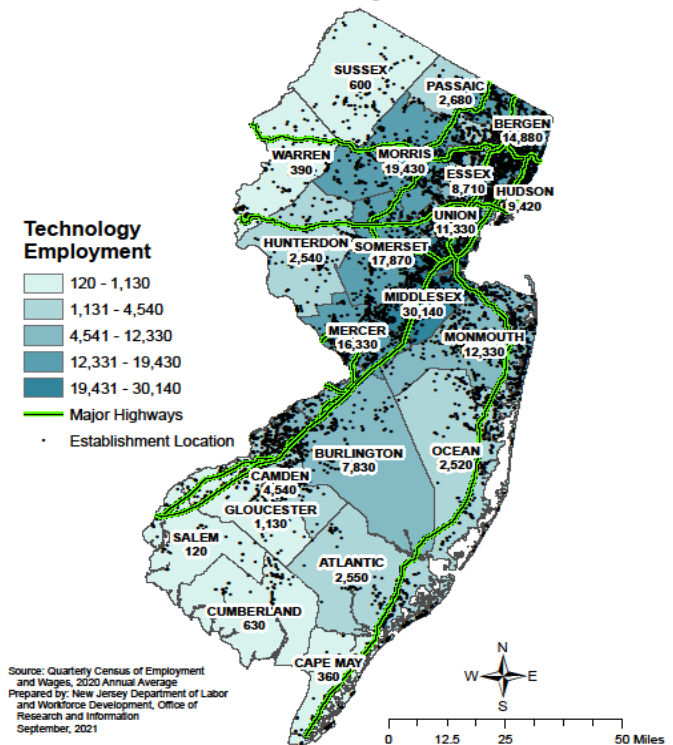
5112	Software publishers	Information
517	Telecommunications	
5182	Data processing and related services	
5413	Architectural and engineering services	Professional & Technical
5415	Computer systems design and related services	
5417	Scientific research and development services	

The technology cluster was expanded to reflect the new U.S. Bureau of Labor Statistics definition of technology industries (2019). BLS designated NAICS industries as technology based on concentration levels of Science, Technology, Engineering & Math (STEM) occupations within the industries.

# NEW JERSEY TECHNOLOGY INDUSTRY CLUSTER EMPLOYMENT OVERVIEW

- In 2020, New Jersey's technology cluster accounted for 184,395 jobs or 5.8 percent of all private sector employment statewide. Nationally the cluster was responsible for 5.2 percent of all private technology employment.
- Annual average wage for the technology cluster was \$146,123 in 2020 or 197.2 percent, nearly double the statewide average (\$74,084) for all industries. Employers in the industry paid over \$26.9 billion in wages, or 11.3 percent of the total wages paid in all industries.
- Employment within the technology cluster can primarily be found within: professional and technical services (23.4%) and information (76.6%).
- From 2004 to 2020 employment in the cluster peaked in 2007 at 189,894 jobs.

**Technology Employment and Establishment Locations  
New Jersey, 2020**

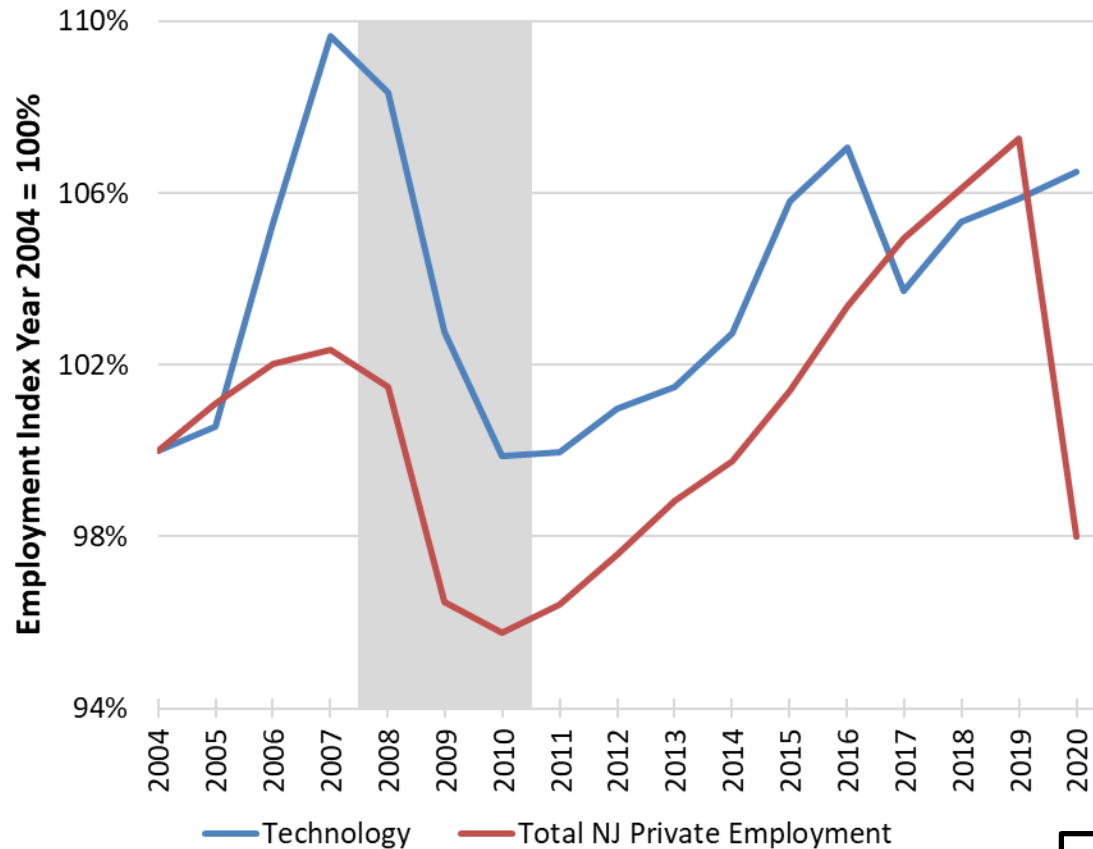




# **TECHNOLOGY INDUSTRY CLUSTER: EMPLOYMENT ANALYSIS**



# NEW JERSEY TECHNOLOGY INDUSTRY CLUSTER ALL PRIVATE SECTOR VS. TECHNOLOGY EMPLOYMENT, 2004-2020



- After experiencing a 9.7 percent growth from 2004 to 2007, the technology industry declined sharply from 2008 to 2010 (-9.8%) before leveling out and experiencing growth from 2011 to 2016 (+7.2%).
- The technology industry experienced a drop in 2017 (-3.3%) and a slight growth in 2018 to 2020 (+2.8%).
- Currently employment is (6.5%) above 2004 employment level.
- NJ technology industry employment has experienced more growth than the private employment since 2011 (+6.5% vs. +1.6%).

Gray area denotes U.S. economic recession as defined by the National Bureau of Economic Research (NBER)



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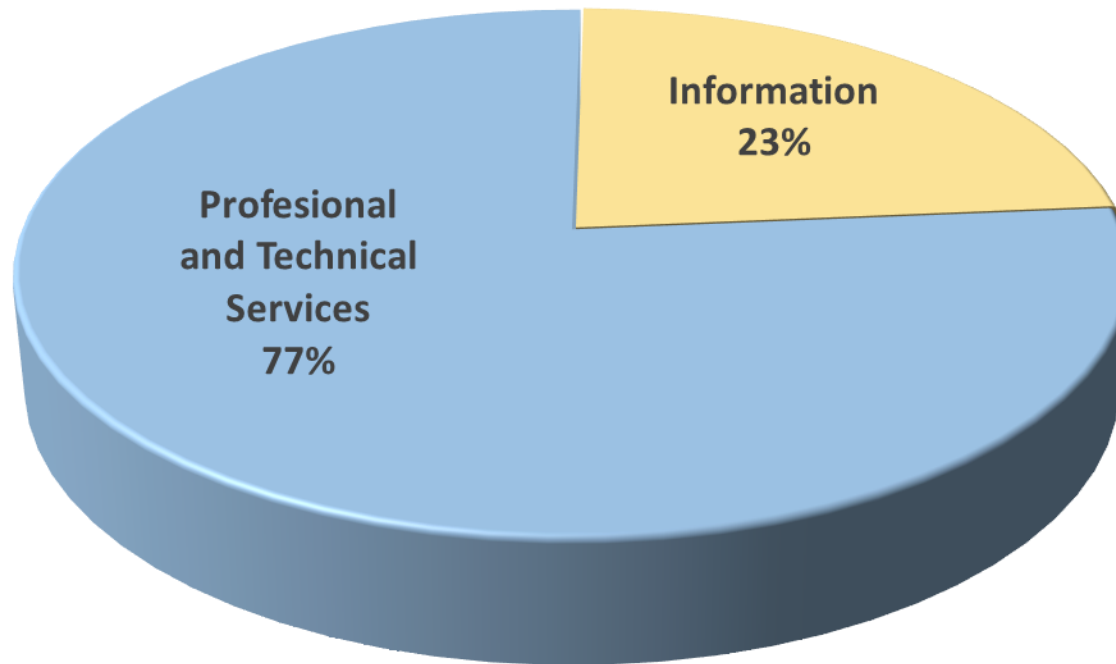
Source: NJ Department of Labor & Workforce Development, Quarterly Census of Employment and Wages: December 2021



# NEW JERSEY TECHNOLOGY INDUSTRY CLUSTER

## PERCENT EMPLOYMENT BY COMPONENT SECTOR, 2020

2020 Employment



- Professional, scientific and technical services accounted for 77 % of the NJ technology cluster with 141,306 employment in 2020.
- Information accounted for 23 % of the NJ technology cluster with 43,089 employment in 2020.



# NEW JERSEY TECHNOLOGY INDUSTRY CLUSTER COMPONENT SECTORS, 2020 ANNUAL AVERAGES

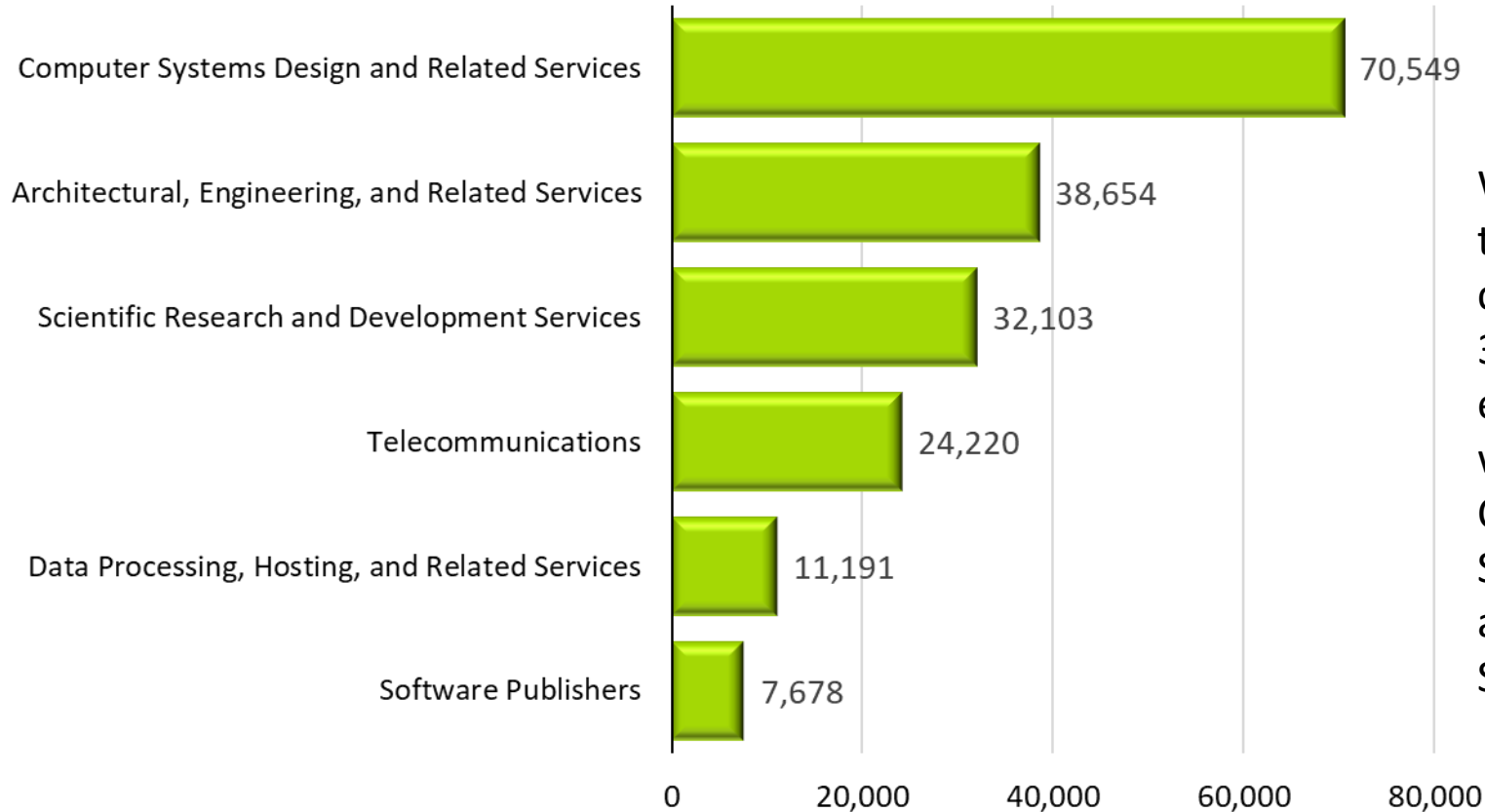
Description	Units	Average Employment	Wages	
			Average	Total
<b>All Private Sector Industries</b>	<b>278,222</b>	<b>3,207,013</b>	<b>\$74,085</b>	<b>\$237,591,229,478</b>
<b>Technology Industry Cluster</b>	<b>15,790</b>	<b>184,395</b>	<b>\$146,123</b>	<b>\$26,944,258,639</b>
Information	2,373	43,089	\$141,193	\$6,083,862,807
Profesional and Technical services	13,417	141,306	\$147,626	\$20,860,395,832

- 85% of all business establishments in the technology cluster were in the professional and technical services in 2020.
- The annual average wage for the information subsectors was \$146,123 near the double the NJ total private sector average wage.
- The annual average wage for the professional and technical services subsectors was \$147,626 near the double the NJ total private sector average wage.

# NEW JERSEY TECHNOLOGY INDUSTRY CLUSTER

## TOP COMPONENT INDUSTRIES RANKED BY EMPLOYMENT, 2020

2020 Employment



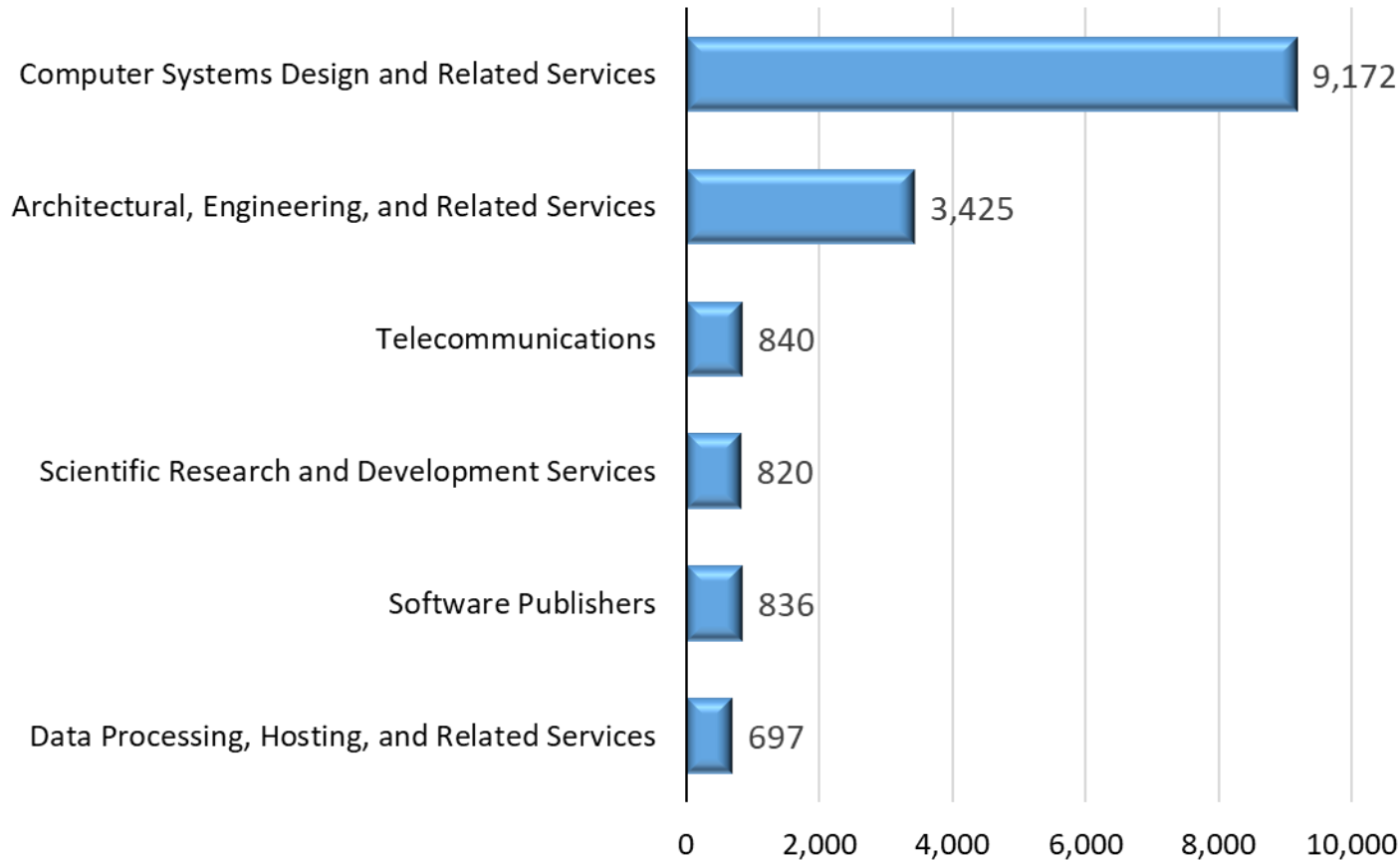
Within the technology cluster, near 38+ percent of employment was found in Computer Systems Design and Related Services.



# NEW JERSEY TECHNOLOGY INDUSTRY CLUSTER

## TOP COMPONENT INDUSTRIES RANKED BY ESTABLISHMENTS, 2020

2020 Establishments

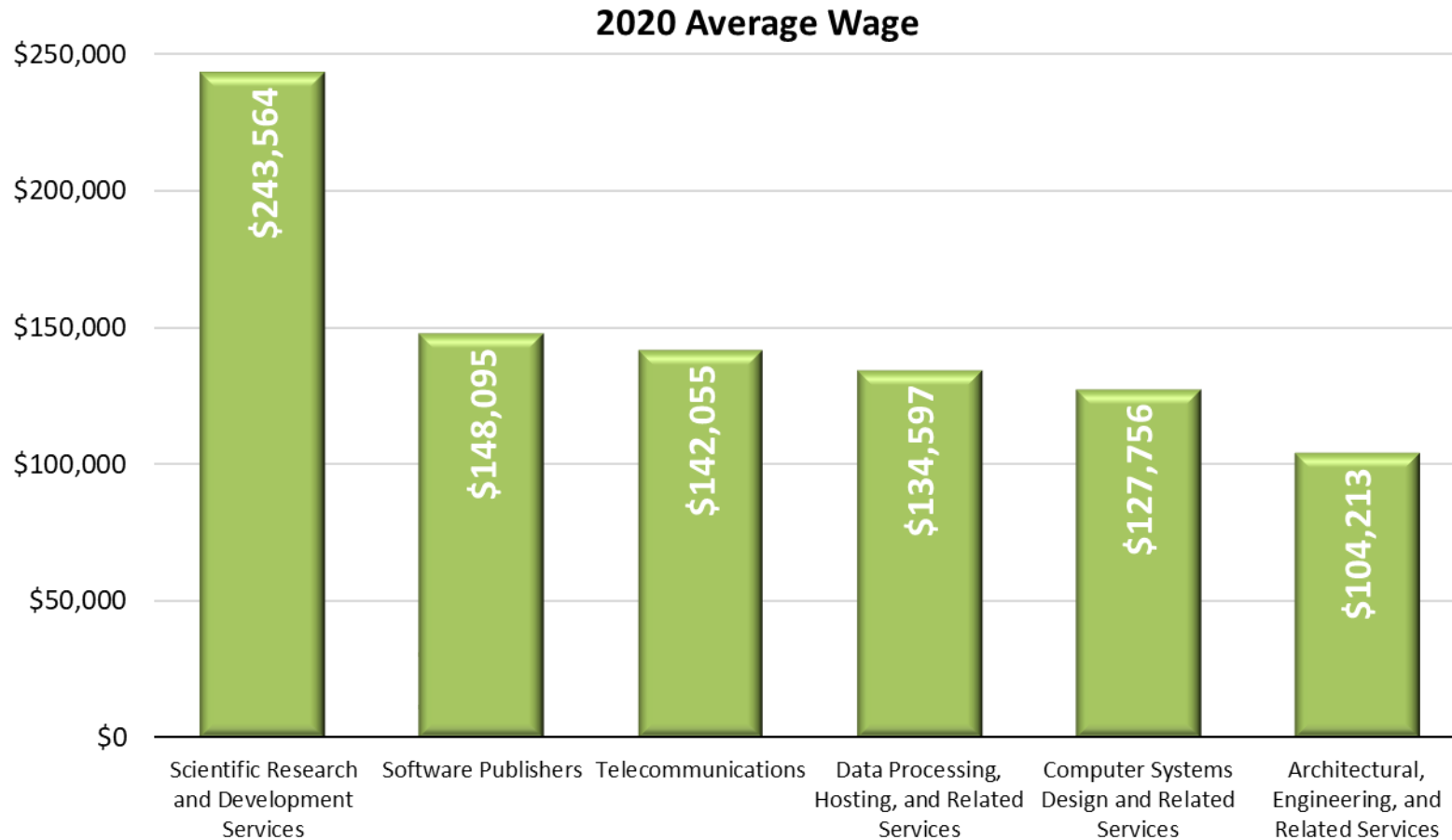


Computer systems design and related services and architectural and engineering, and related services accounted for nearly 58+ percent of all establishments in the technology industry cluster in 2020.



# NEW JERSEY TECHNOLOGY INDUSTRY CLUSTER

## TOP COMPONENT INDUSTRIES RANKED BY AVERAGE WAGE, 2020



The scientific research and development services industry has the 5th highest 2020 annual average wage across all industries in New Jersey.

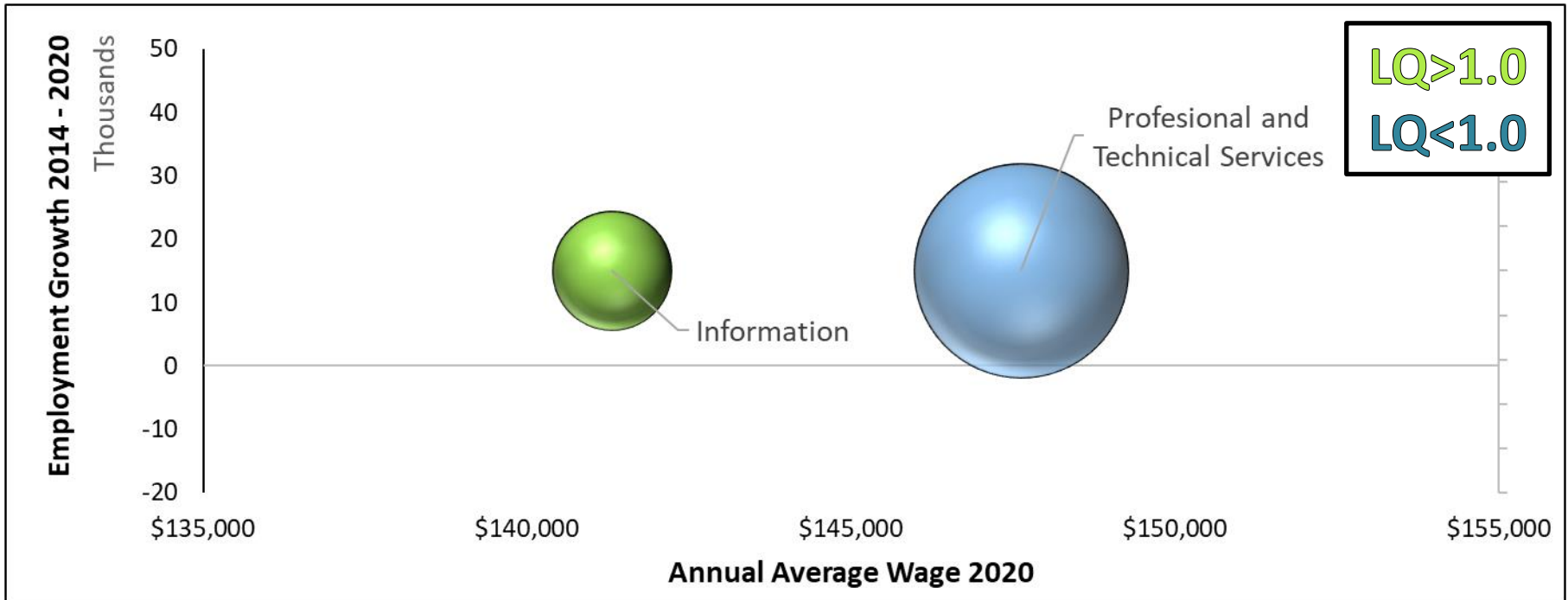


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Source: NJ Department of Labor & Workforce Development, Quarterly Census of Employment and Wages: December 2021

# NEW JERSEY TECHNOLOGY INDUSTRY CLUSTER EMPLOYMENT SIZE, GROWTH, SALARY & LOCATION QUOTIENT

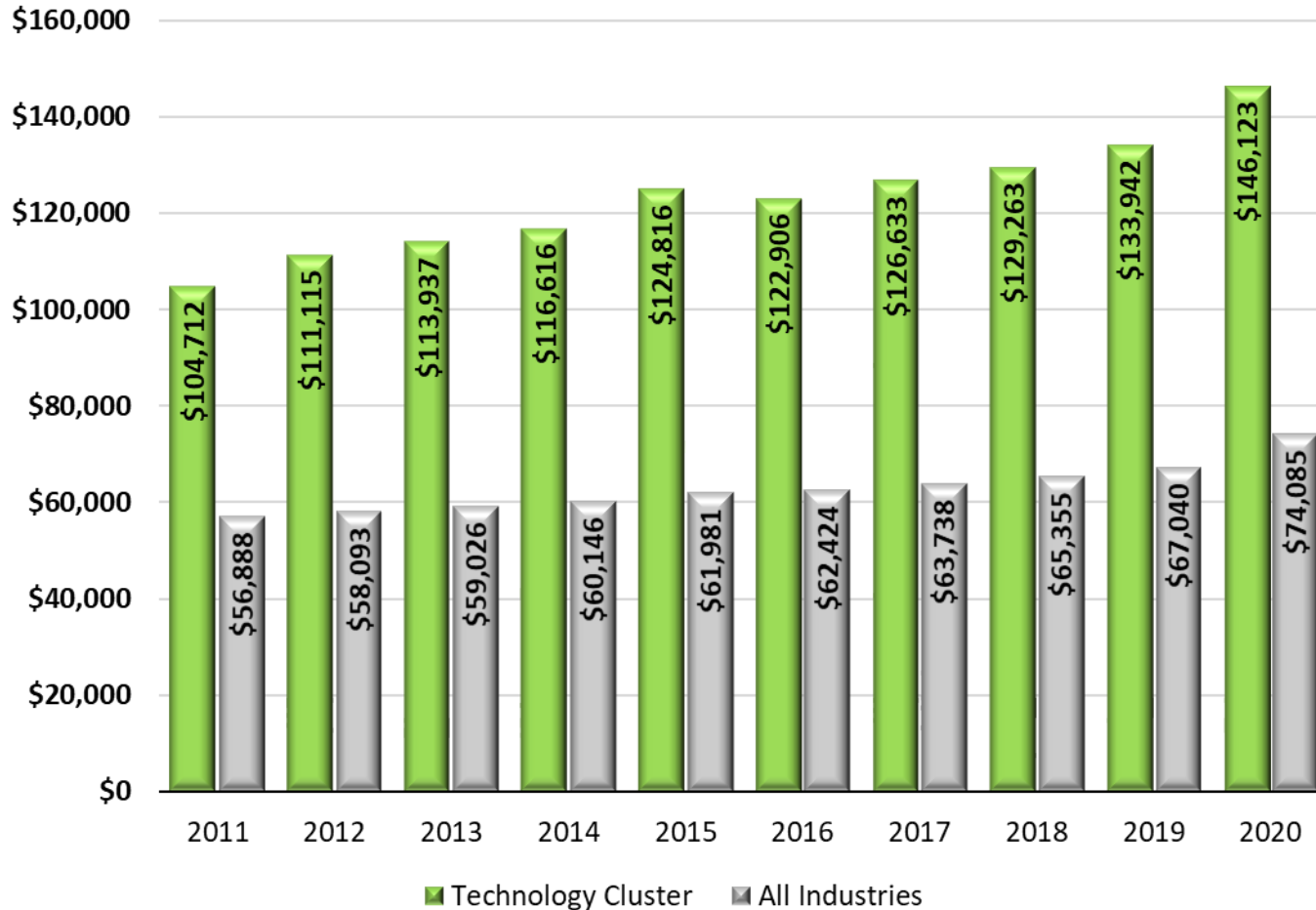


The above bubble graph has four elements:

1. Total 2020 employment - represented by the size of the bubble.
2. 2014-2020 employment growth- shown on the Y-axis, or vertical position.
3. 2020 annual average wages - shown on the X-axis, or horizontal position.
4. Location quotient - indicated by the color of the bubble. The location quotient compares the concentration of the industry subsectors in the state to those of the nation. Industries with a location quotient above 1 are known as “basic industries” which (in theory) export a good or service from the state and in return, bring in wealth.



# NEW JERSEY TECHNOLOGY INDUSTRY CLUSTER ALL PRIVATE SECTOR VS. TECHNOLOGY ANNUAL AVERAGE WAGE



- Wages in the technology cluster have nearly double of the statewide annual average wage since 2011.
- Annual average wages for the technology cluster have risen 31.5% since 2011.



# NEW JERSEY TECHNOLOGY INDUSTRY CLUSTER PROFESSIONAL, SCIENTIFIC & TECHNICAL SERVICES, 2020

Description	Units	Average Employment	Wages	
			Average	Total
<b>Technology Industry Cluster</b>	<b>15,790</b>	<b>184,395</b>	<b>\$146,123</b>	<b>\$26,944,258,639</b>
<i>Profesional and Technical services</i>	<b>13,417</b>	<b>141,306</b>	<b>\$147,626</b>	<b>\$20,860,395,832</b>
Computer Systems Design and Related Services	9,172	70,549	\$127,756	\$9,013,000,416
Architectural, Engineering, and Related Services	3,425	38,654	\$104,213	\$4,028,226,310
Scientific Research and Development Services	820	32,103	\$243,564	\$7,819,169,106

Employment in computer systems design and related services accounted for half of total technology cluster employment and two-thirds of its establishments.

# NEW JERSEY TECHNOLOGY INDUSTRY CLUSTER INFORMATION SECTOR, 2020

Description	Units	Average Employment	Wages	
			Average	Total
<b>Technology Industry Cluster</b>	<b>15,790</b>	<b>184,395</b>	<b>\$146,123</b>	<b>\$26,944,258,639</b>
<b><i>Information</i></b>	<b>2,373</b>	<b>43,089</b>	<b>\$141,193</b>	<b>\$6,083,862,807</b>
Telecommunications	840	24,220	\$142,055	\$3,440,528,898
Software Publishers	836	7,678	\$148,095	\$1,137,114,171
Data Processing, Hosting, and Related Services	697	11,191	\$134,597	\$1,506,219,738

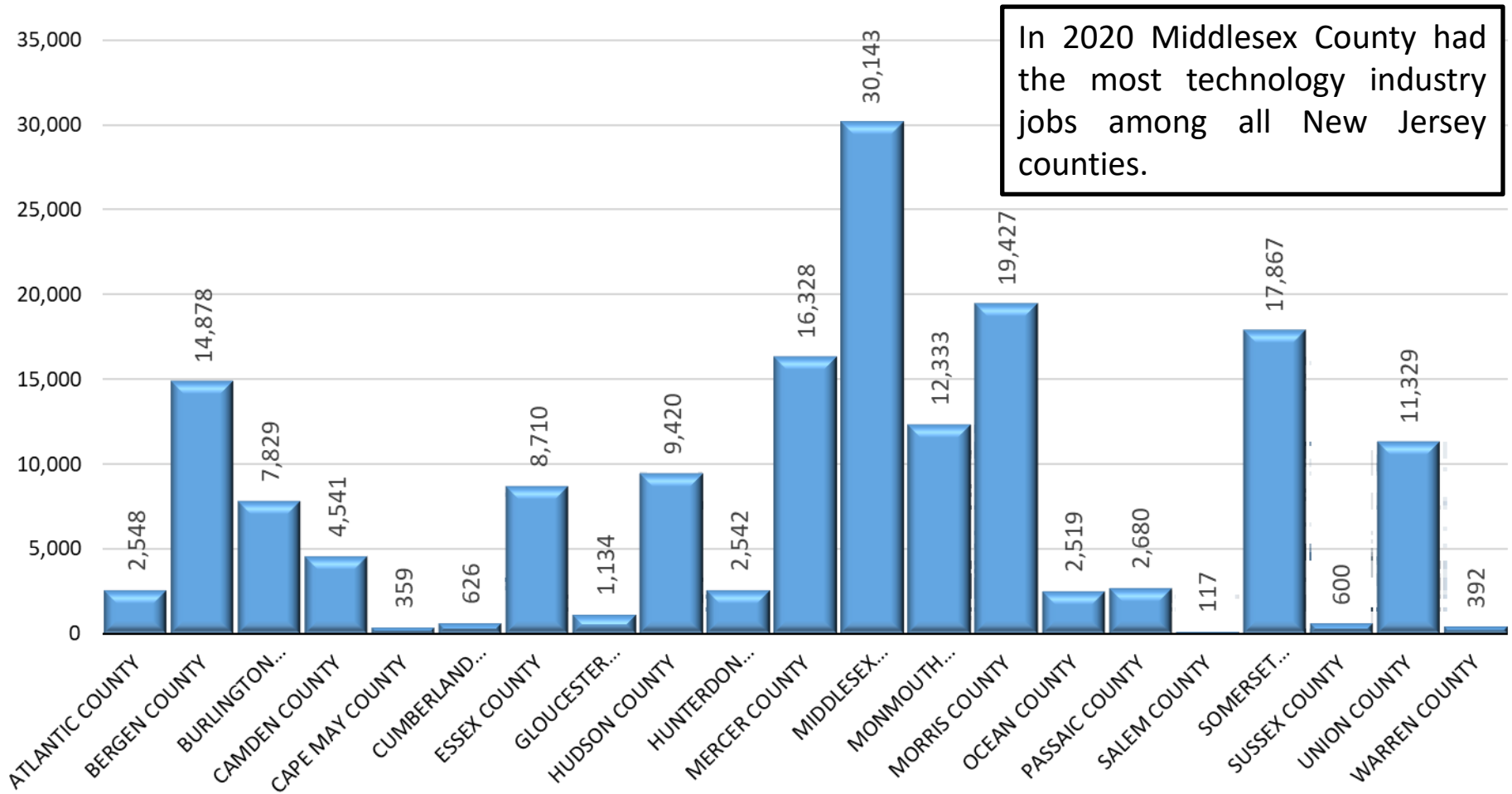
Employment in telecommunications accounted for 56.2 percent of the information cluster employment and 35.4 percent of its establishments.

Subsector industry numbers may not reflect the total industry sector data because of non-disclosure guidelines.

# **TECHNOLOGY INDUSTRY CLUSTER: REGIONAL AND COUNTY EMPLOYMENT ANALYSIS**

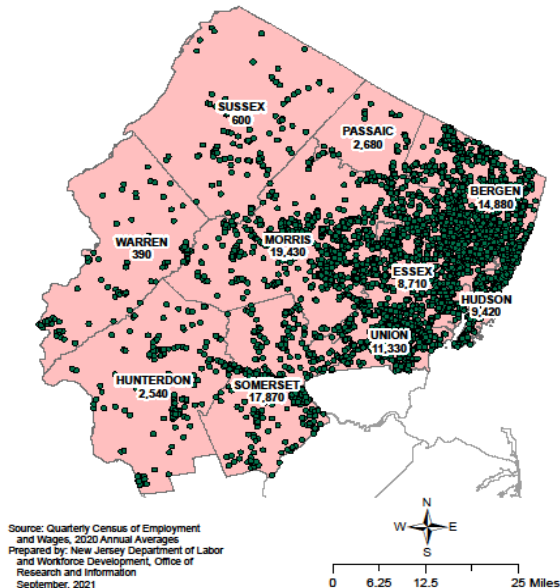


# NEW JERSEY TECHNOLOGY INDUSTRY CLUSTER TECHNOLOGY EMPLOYMENT BY COUNTY, 2020 ANNUAL AVERAGES



# NEW JERSEY TECHNOLOGY INDUSTRY CLUSTER NORTHERN REGION, 2020 ANNUAL AVERAGES

Technology Employment and Establishment Locations  
Northern Region of New Jersey, 2020



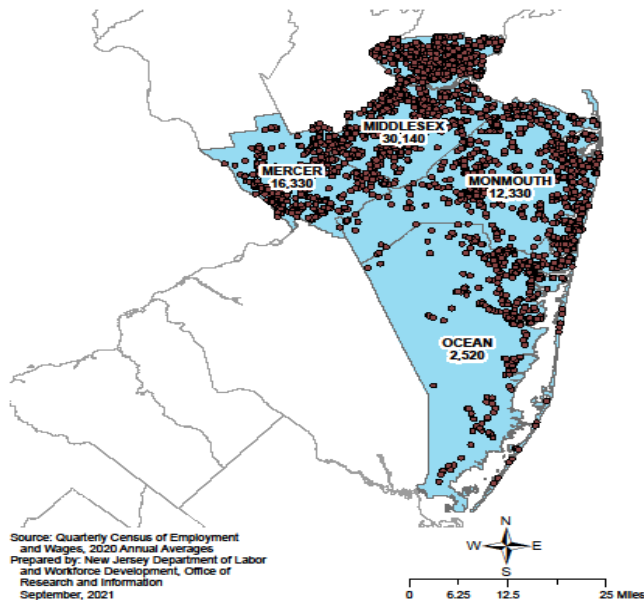
Description	Units	Average Employment	Wages	
			Average	Total
<b>Technology Industry Cluster</b>	<b>15,790</b>	<b>184,395</b>	<b>\$146,123</b>	<b>\$26,944,258,639</b>
<b>Northern Region</b>	<b>5,819</b>	<b>87,845</b>	<b>\$165,434</b>	<b>14,532,515,846</b>
Bergen	1,383	14,878	\$133,190	\$1,884,074,444
Somerset	1,016	19,427	\$158,719	\$3,635,071,483
Union	815	17,867	\$154,386	\$2,965,850,442
Hudson	711	9,420	\$155,442	\$1,374,628,878
Passaic	709	8,710	\$118,112	\$1,023,514,781
Hunterdon	460	11,329	\$157,398	\$2,916,073,912
Sussex	303	2,680	\$140,162	\$306,360,807
Morris	227	2,542	\$125,000	\$340,786,366
Essex	115	600	\$114,442	\$55,006,738
Warren	80	392	\$103,175	\$31,147,995





# NEW JERSEY TECHNOLOGY INDUSTRY CLUSTER CENTRAL REGION, 2020 ANNUAL AVERAGES

*Technology Employment and Establishment Locations  
Central Region of New Jersey, 2020*

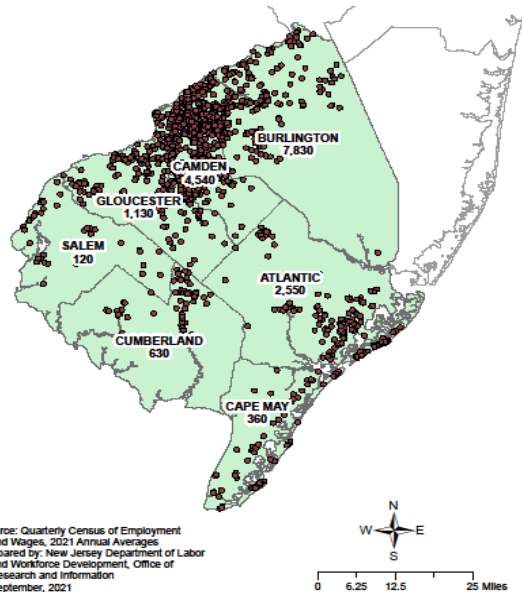


Description	Units	Average Employment	Wages	
			Average	Total
Technology Cluster	15,790	184,395	\$146,123	\$26,944,258,639
<i>Central Region</i>	<b>4,375</b>	<b>61,323</b>	<b>\$130,808</b>	<b>8,021,553,083</b>
Middlesex	2,181	30,143	\$129,603	3,785,762,634
Monmouth	956	16,328	\$146,547	2,392,820,482
Mercer	896	12,333	\$133,379	1,644,965,369
Ocean	342	2,519	\$78,604	198,004,598



# NEW JERSEY TECHNOLOGY INDUSTRY CLUSTER SOUTHERN REGION, 2020 ANNUAL AVERAGES

*Technology Employment and Establishment Locations  
Southern Region of New Jersey, 2020*



Description	Units	Average Employment	Wages	
			Average	Total
<b>Technology Cluster</b>	<b>15,790</b>	<b>184,395</b>	<b>\$146,123</b>	<b>\$26,944,258,639</b>
<b><i>Southern Region</i></b>	<b>1,373</b>	<b>17,154</b>	<b>\$97,451</b>	<b>1,671,671,155</b>
Burlington	516	7,829	\$109,300	\$851,134,873
Camden	382	4,541	\$93,483	\$417,507,001
Gloucester	178	1,134	\$93,160	\$87,391,673
Atlantic	168	2,548	\$85,328	\$241,699,750
Cape May	56	359	\$74,515	\$27,251,366
Cumberland	47	626	\$46,498	\$38,891,208
Salem	26	117	\$60,195	\$7,795,284



# **TECHNOLOGY INDUSTRY CLUSTER: OCCUPATIONAL ANALYSIS**



# NEW JERSEY TECHNOLOGY INDUSTRY CLUSTER

## TOP OCCUPATIONAL GROUPS, 2020

Occupational Title	2020 Employment	Percent of Total Employment	2020 Average Salary
<b>Total all occupations</b>	<b>193,420</b>	<b>100%</b>	<b>\$110,849</b>
Computer and Mathematical Occupations	65,070	33.6%	\$114,527
Management Occupations	28,910	14.9%	\$191,034
Business and Financial Operations Occupations	20,760	10.7%	\$103,220
Architecture and Engineering Occupations	20,110	10.4%	\$98,911
Office and Administrative Support Occupations	19,100	9.9%	\$51,557
Life, Physical, and Social Science Occupations	13,440	6.9%	\$86,847
Installation, Maintenance, and Repair Occupations	8,330	4.3%	\$67,502
Sales and Related Occupations	7,020	3.6%	\$101,565
Education, Training, and Library Occupations	2,140	1.1%	\$87,394
Production Occupations	1,790	0.9%	\$54,642
Healthcare Practitioners and Technical Occupations	990	0.5%	\$38,431
Construction and Extraction Occupations	880	0.5%	\$78,011
Transportation and Material Moving Occupations	860	0.4%	\$44,678
Legal Occupations	750	0.4%	\$141,290
Building and Grounds Cleaning and Maintenance	700	0.4%	\$38,132
Arts, Design, Entertainment, Sports, and Media	560	0.3%	\$74,549
Protective Service Occupations	30	0.0%	\$47,692
Healthcare Support Occupations	20	0.0%	\$39,302
Community and Social Services Occupations	0	0.0%	\$0
<b>Science, Technology, Engineering, and Mathematical (STEM) Occupations</b>	<b>98,620</b>	<b>51%</b>	<b>\$107,571</b>

Science, Technology, Engineering and Mathematical (STEM) occupations accounted for half of the technology cluster occupational employment in 2020 with 98,620 employment.



# NEW JERSEY TECHNOLOGY INDUSTRY CLUSTER

## INDUSTRY CLUSTER TOP OCCUPATIONS BY EMPLOYMENT, 2020

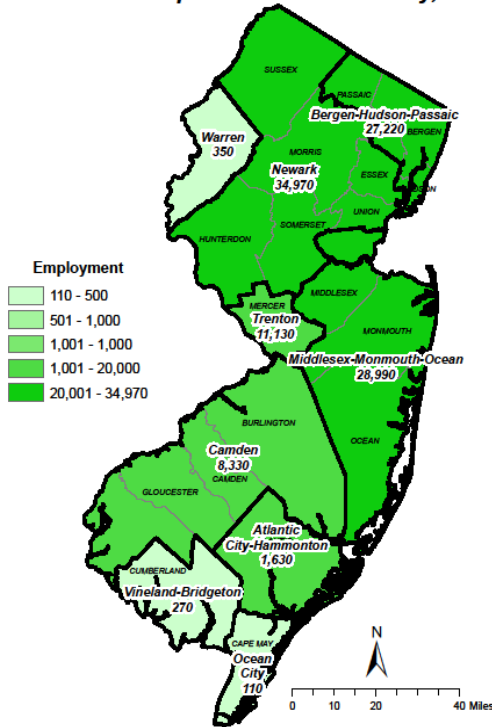
NAICS and Occupational Title		2020 Employment	Education
15-1256	Software Developers and Software Quality Assurance Analysts and Testers	28,890	Bachelor's degree
15-1211	Computer Systems Analysts	10,730	Bachelor's degree
11-3021	Computer and Information Systems Managers	6,760	Bachelor's degree
11-1021	General and Operations Managers	5,100	Bachelor's degree
17-2051	Civil Engineers	4,160	Bachelor's degree
15-1232	Computer User Support Specialists	3,990	Bachelor's degree
15-1251	Computer Programmers	3,750	Bachelor's degree
13-2011	Accountants and Auditors	2,680	Bachelor's degree
19-2031	Chemists	2,070	Bachelor's degree
43-9061	Office Clerks, General	1,980	High school diploma or equivalent
43-4051	Customer Service Representatives	1,950	Some college, no degree
15-1244	Network and Computer Systems Administrators	1,930	Bachelor's degree
19-1021	Biochemists and Biophysicists	1,920	Doctoral or professional degree
13-1111	Management Analysts	1,850	Bachelor's degree
13-1161	Market Research Analysts and Marketing Specialists	1,290	Bachelor's degree
43-3031	Bookkeeping, Accounting, and Auditing Clerks	1,110	Some college, no degree
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	890	High school diploma or equivalent
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	370	Bachelor's degree
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	110	High school diploma or equivalent

\* Employment data only includes NAICS technology cluster codes.

**STEM Occupations**

# ALL NEW JERSEY STEM OCCUPATIONS BY LABOR AREA

*Employment by Labor Area  
STEM Occupations in New Jersey, 2020*

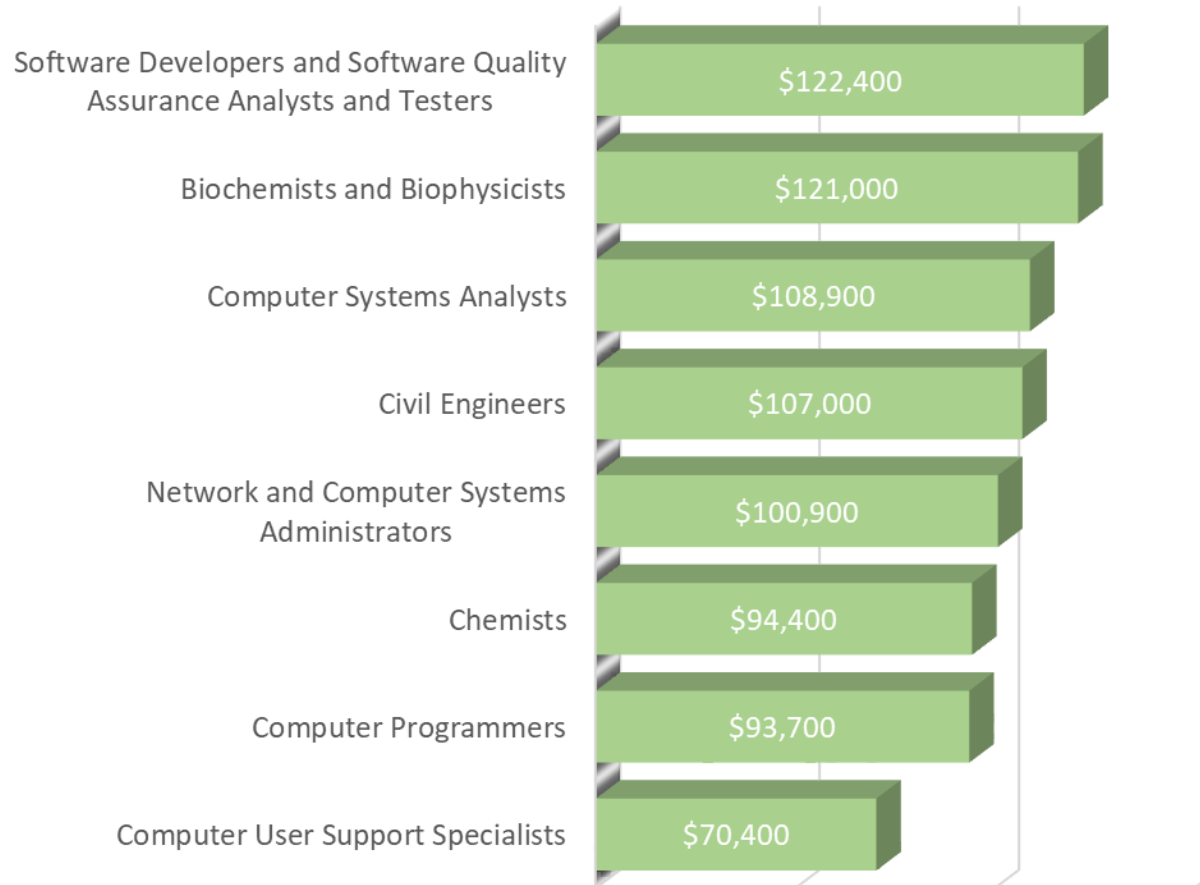


Labor Area	STEM Employment
Essex-Hunterdon-Morris-Somerset-Sussex-Union County Area	160,240
Bergen-Hudson-Passaic County Area	128,070
Middlesex-Monmouth-Ocean County Area	119,450
Burlington-Camden-Gloucester-Salem County Area	63,640
Mercer County Area	35,280
Atlantic County Area	8,480
Cumberland County Area	5,780
Warren County Area	2,730
Cape May County Area	2,160





# NEW JERSEY TECHNOLOGY INDUSTRY CLUSTER HIGHEST PAYING STEM OCCUPATIONS, 2020

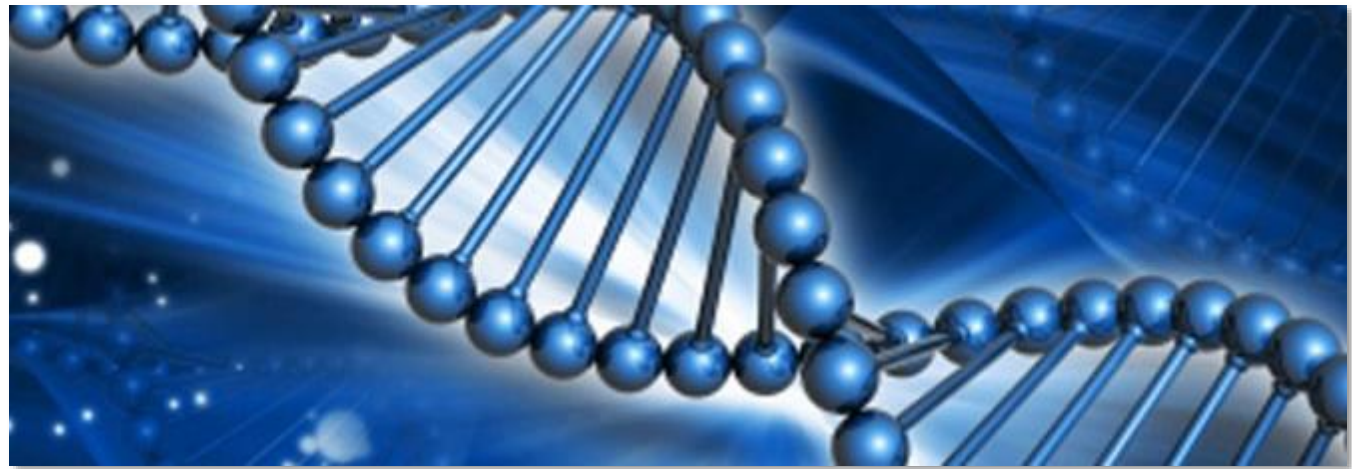


- The highest annual average STEM salary was Software Developers and Software Quality Assurance Analysts and Testers (\$122,400), employed 28,890.
- The STEM occupations by employment all had an occupational annual average wage that was above the state average (\$74,085).

2020 Annual Average Salary



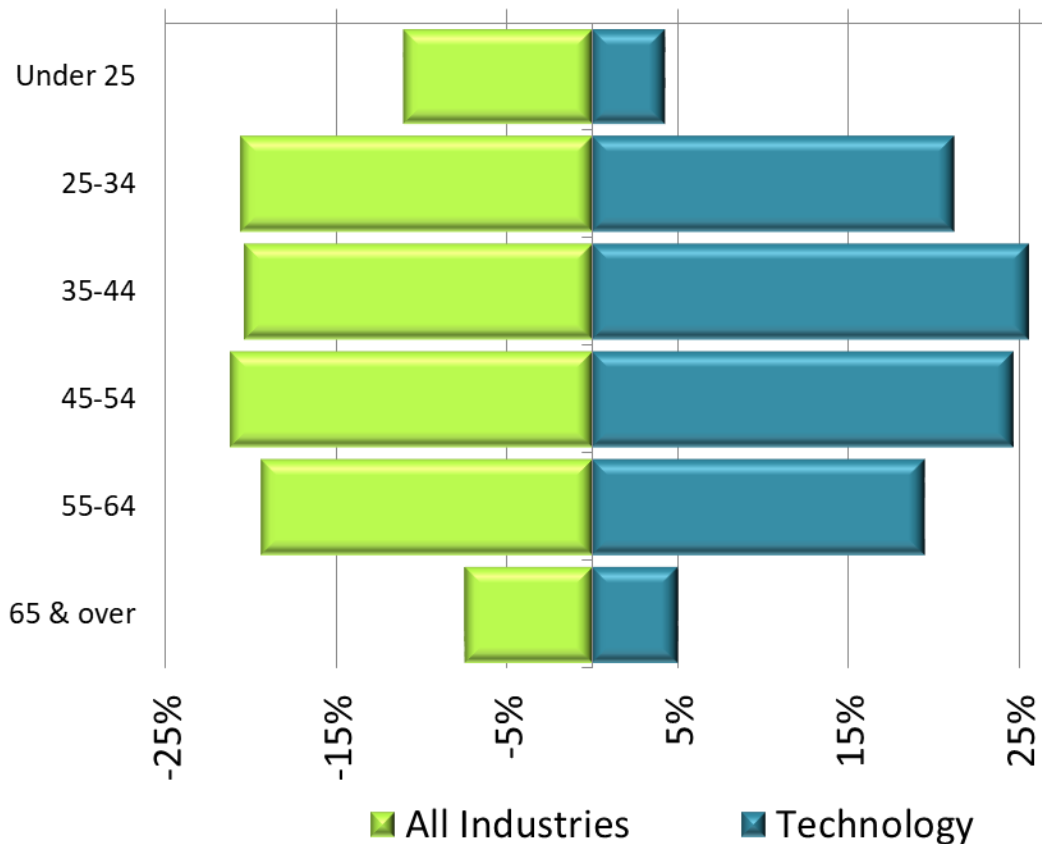
# **TECHNOLOGY INDUSTRY CLUSTER: 2019 DEMOGRAPHIC OVERVIEW**



# NEW JERSEY TECHNOLOGY INDUSTRY CLUSTER

## NJ RESIDENTS IN TECHNOLOGY WORK FORCE VS. ALL INDUSTRIES

Age Breakdown of Workers in Technology and All Industries  
New Jersey, 2020

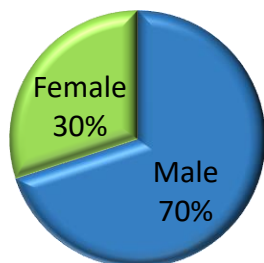


- Technology workers' age characteristics have remained steady since 2014.
- 52% of Technology workers are under 45 years and 48% are over 45 years.
- 5.1 percent of the current NJ resident technology workforce are aged 65 and older, a 1.1 increase from 2014.

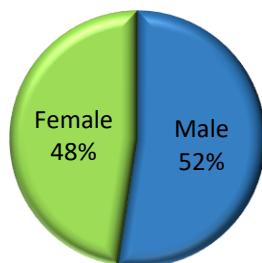
# NEW JERSEY TECHNOLOGY INDUSTRY CLUSTER

## NJ RESIDENTS IN TECHNOLOGY WORK FORCE VS. TOTAL NONFARM, 2019

**Technology**



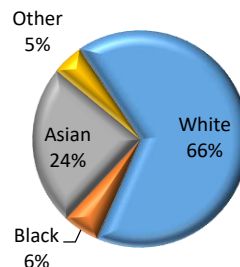
**All Industries**



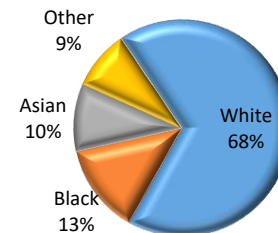
Men continue to outnumber women by nearly a 2 to 1 margin in the technology workforce.

Asians technology workers represent 29% of the sector versus 10% of all the industries.

**Technology**

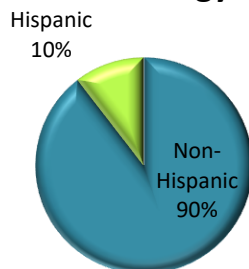


**All Industries**

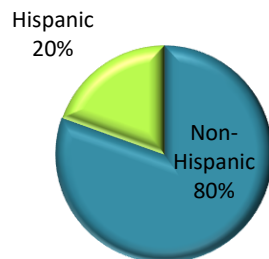


There are more than 14,000 Hispanics in the Technology industry cluster.

**Technology**



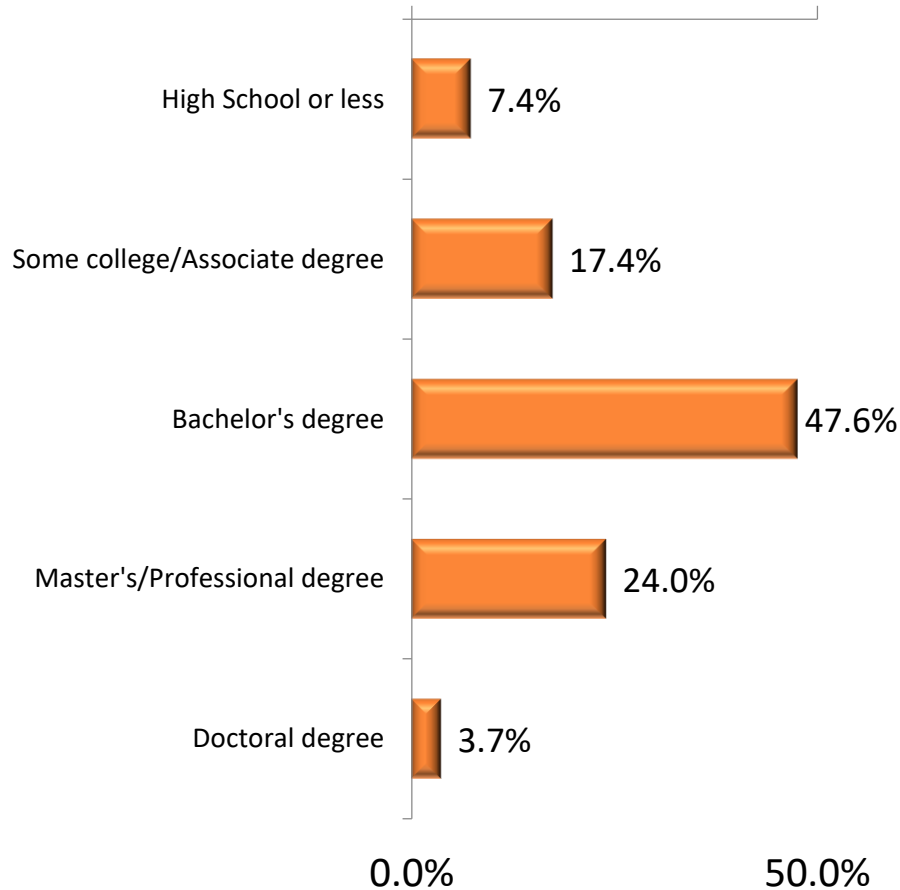
**All Industries**



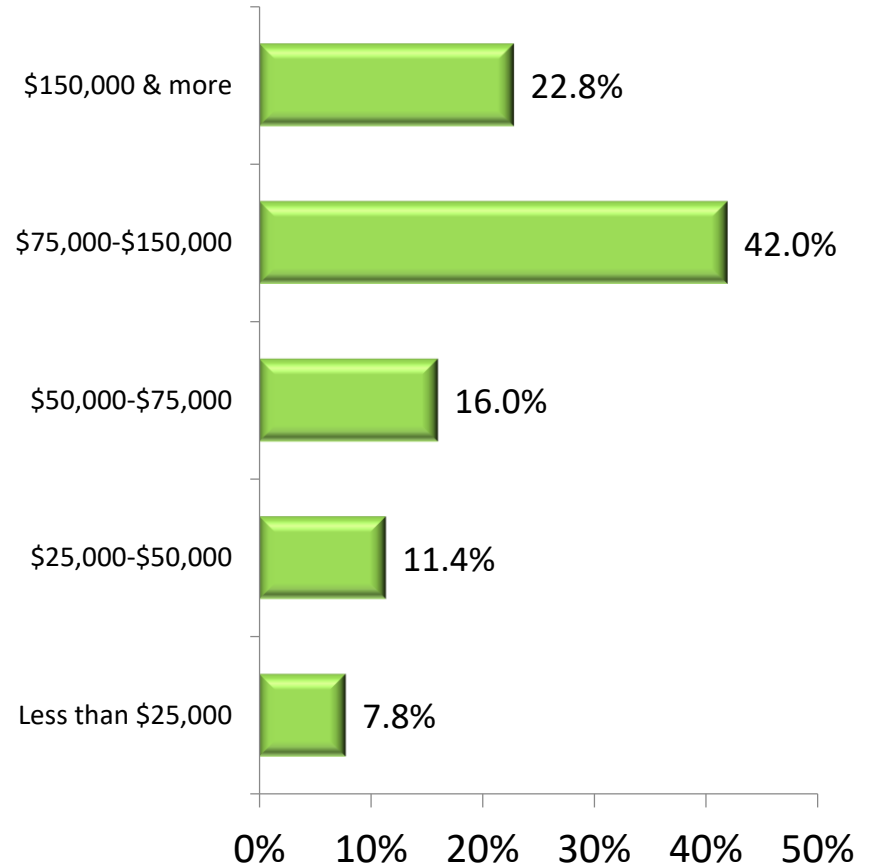
# NEW JERSEY TECHNOLOGY INDUSTRY CLUSTER

## NJ RESIDENTS IN TECHNOLOGY WORK FORCE, 2019

### Education Level

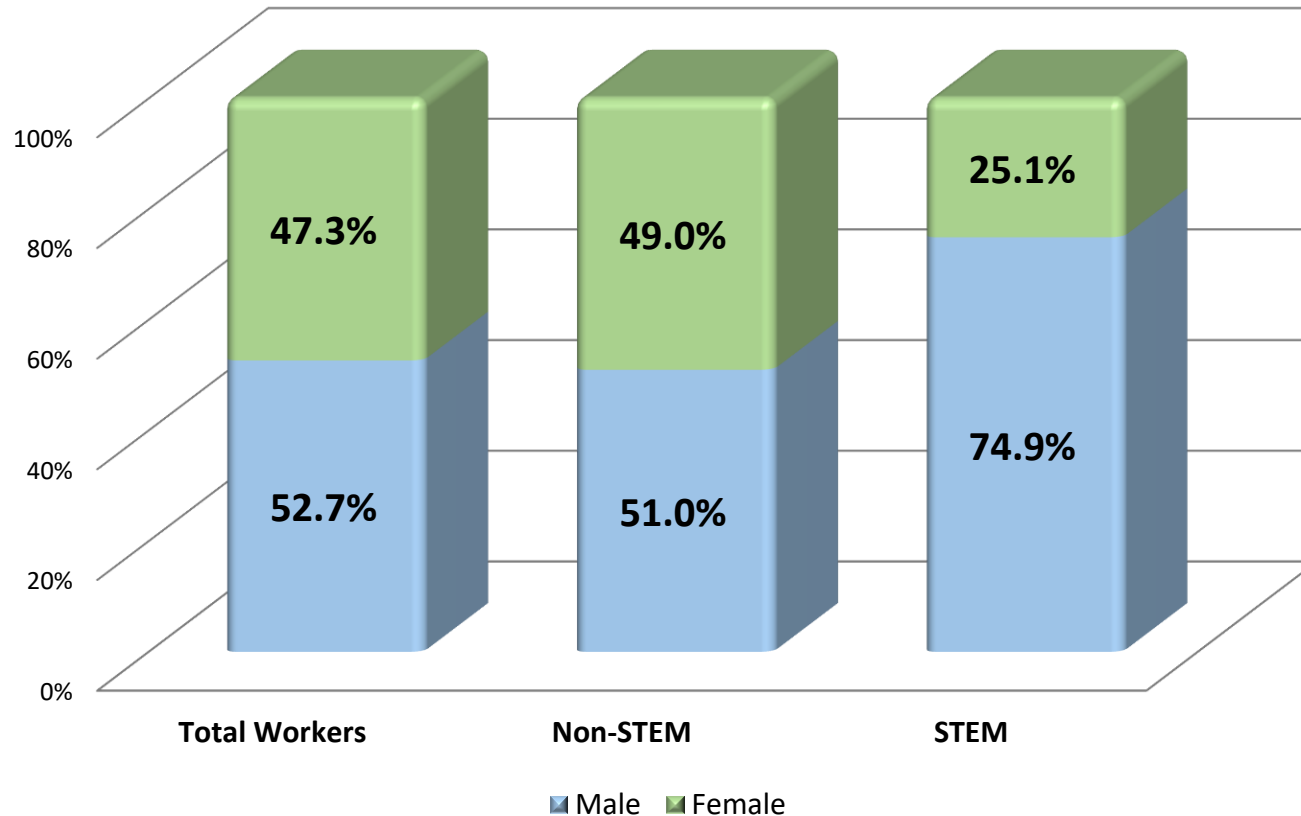


### Personal Earnings



# NJ RESIDENTS IN STEM JOBS

Gender Shares of Non-STEM and STEM Jobs, 2017



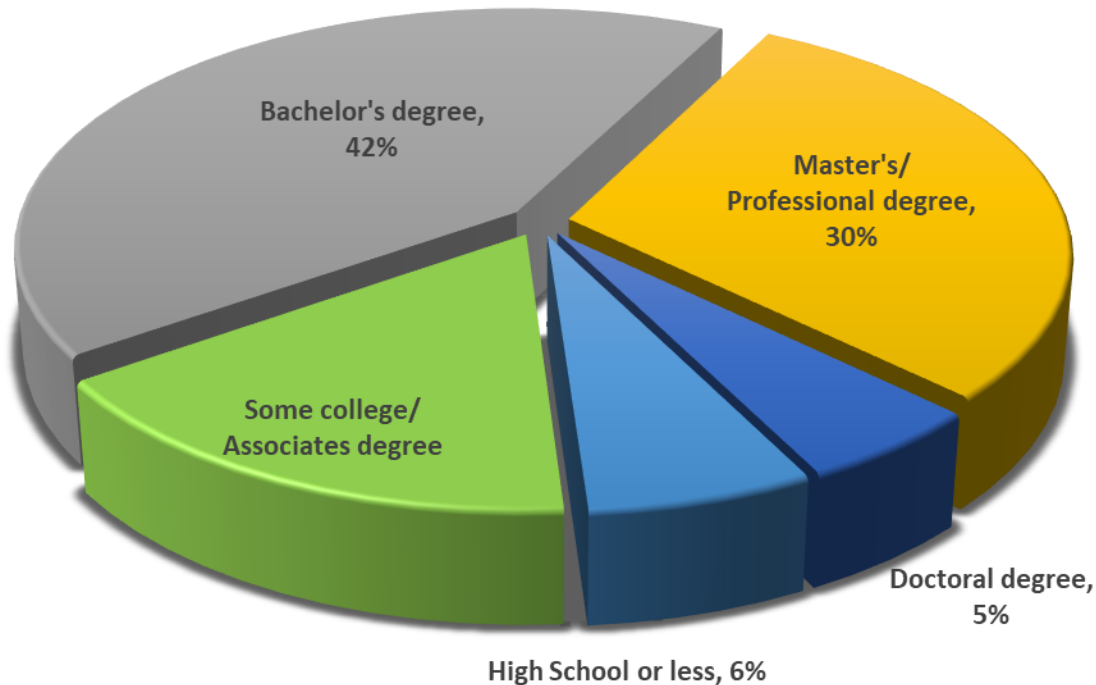
The STEM workforce is predominantly male. Resident women hold slightly over twenty-five percent of science, technology, engineering & math jobs in New Jersey.

Note: Estimates are for employed persons 16 and over.



# EDUCATION CHARACTERISTICS FOR NJ RESIDENTS IN STEM JOBS, 2017

## Educational Breakdown



- The STEM workforce requires well-educated and highly skilled workers to meet the high technical demands of many of the occupations.
- More than 77 percent of NJ residents in the STEM workforce hold at least a Bachelor's or higher degree compared to only 38.7 percent of NJ residents in non-stem occupations.

*Note: Estimates are for employed persons 16 and over.*



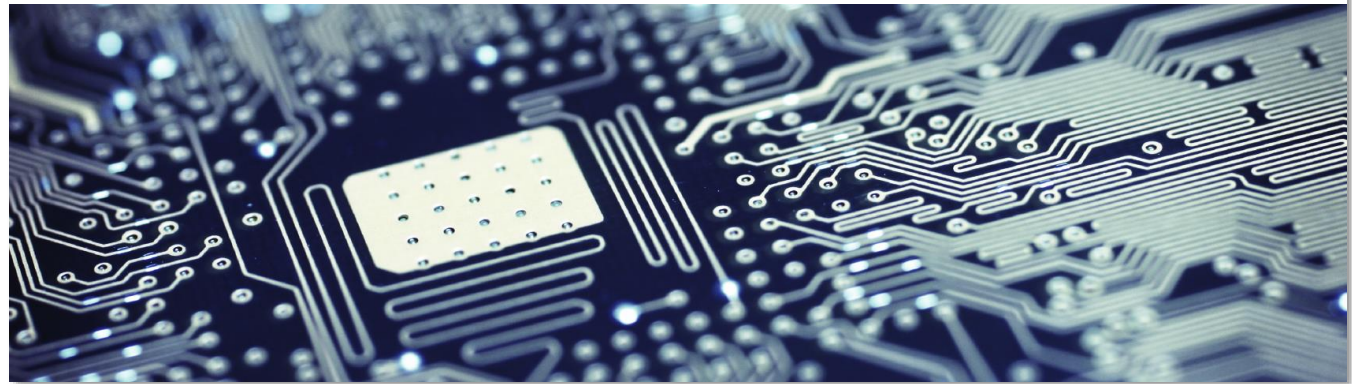
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NEW JERSEY DEPARTMENT OF  
LABOR AND WORKFORCE DEVELOPMENT  
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Source: New Jersey Department of Labor and Workforce Development  
2017 American Community Survey  
public-use micro data: December 2021

# **TECHNOLOGY INDUSTRY CLUSTER: OCCUPATIONAL PROJECTIONS AND OUTLOOK**



# NEW JERSEY TECHNOLOGY INDUSTRY CLUSTER

## NJ DETAILED OCCUPATIONAL EMPLOYMENT PROJECTIONS 2018-2028

Occupational Title	Employment				Average Annual		
	Actual	Projected	Change 2018-2028		Job Openings		
	2018	2028	Number	Percent	Total	Growth	Replacement
Total, All Occupations	4,400,060	4,649,570	249,510	5.7	221,690	24,950	196,740
Non-STEM Occupations	4,154,980	4,384,350	229,370	5.5	215,070	22,940	192,130
STEM Occupations	245,080	265,220	20,140	24.3	6,620	2,010	4,610
Computer and Mathematical Occupations	149,520	162,040	12,520	8.4	3,740	1,250	2,490
Architecture and Engineering Occupations	54,480	58,820	4,340	8.0	1,760	430	1,330
Life, Physical, and Social Science Occupations	41,080	44,360	3,280	8.0	1,120	330	790

STEM occupations are projected to experience a 7.6 percent employment growth by 2028.



# NEW JERSEY TECHNOLOGY INDUSTRY CLUSTER

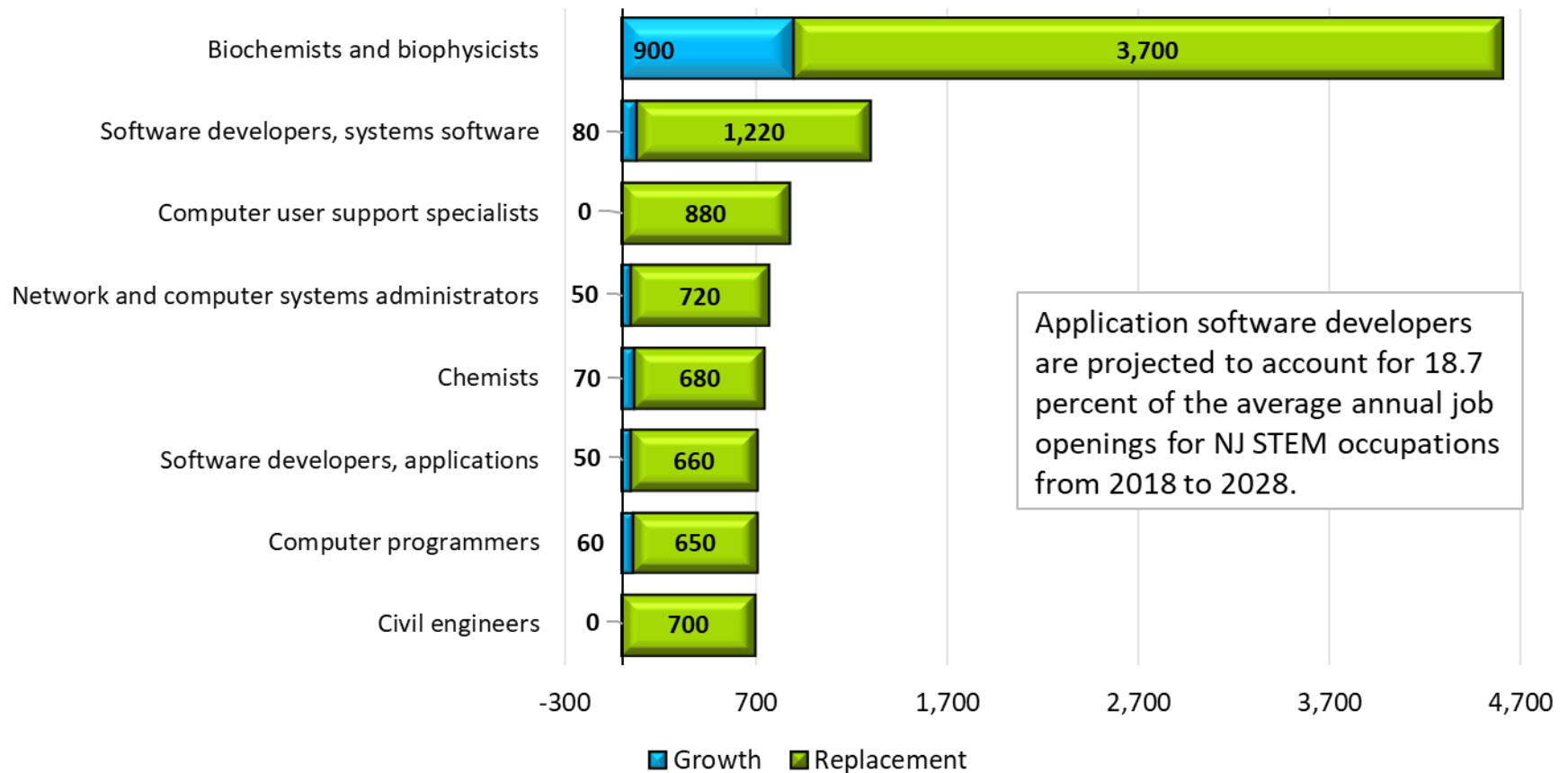
## NJ DETAILED INDUSTRY EMPLOYMENT PROJECTIONS 2018-2028

Technology Industry Cluster	Employment			
	Actual	Projected	Change 2018-2028	
	2018	2028	Number	Percent
<b>Total Nonfarm</b>	<b>4,400,060</b>	<b>4,649,570</b>	<b>249,510</b>	<b>5.7</b>
Total Private	4,113,760	4,372,270	258,510	5.9
<u>Information</u>	69,700	56,270	-13,430	-19.3
Publishing Industries (except Internet)	17,300	14,900	-2,400	-13.9
Telecommunications	25,500	19,300	-6,200	-24.3
Other Information Services	26,900	22,070	-4,830	-18.0
<u>Professional, Scientific, and Technical Services</u>	303,100	328,800	25,700	8.5
Architectural, Engineering, and Related Services	39,800	42,400	2,600	6.5
Computer Systems Design and Related Services	71,200	80,000	8,800	12.4
Scientific Research and Development Services	30,200	32,700	2,500	8.3

- Information will experience a -19.3 percent decline over the ten year period from 2018 to 2028.
- Architectural and Engineering, Computer Systems Designs, and Scientific Research makes 43 percent of the employment growth with in the Professional, Scientific and Technical Services.

# NEW JERSEY TECHNOLOGY INDUSTRY CLUSTER PROJECTED ANNUAL AVERAGE OPENINGS FOR STEM OCCUPATIONS

2018-2028 Projected Annual Average Job Openings



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**LWD**  
LABOR AND WORKFORCE DEVELOPMENT  
nj.gov/labor

# NEW JERSEY TECHNOLOGY INDUSTRY CLUSTER CONTACT INFORMATION

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<http://lwd.dol.state.nj.us/>

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Trenton, NJ 08625-0057

### **Office of Research and Information**

[http://lwd.dol.state.nj.us/labor/lpa/LMI\\_index.html](http://lwd.dol.state.nj.us/labor/lpa/LMI_index.html)

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